

IN THE CLAIMS:

34

--Claims 1-5 (Cancelled).

Claim 6 (Currently Amended). An alloy as in claim 13, 1, characterized in
that wherein an effective total WS = % Cr + 3[% Mo + 0.5 % W] + 16 % N \geq 54 is selected.

Claim 7 (Currently Amended). An alloy as in claim 13, 1, characterized in
that wherein a stretch limit R_{p0,2} of at least 400 N/mm² is selected in the solution-annealed state.

Claim 8 (Currently Amended). An alloy as in claim 13, 1, characterized in
that wherein a combination of WS \geq 54 with R_{p0,2} \geq 400 N/mm² is selected in the solution-annealed state.

Claim 9-12 (Cancelled).

Claim 13 (New). An austenitic alloy comprising in weight %:

a content of 18.0-21.0 % Cr;

a content of 12.0-16.0 % Fe;

a content of 9.0-13.0 % Mo;

a maximum content of 1.0 % Co;

a content of 0.5-2.5 % W;

a maximum content of 0.025 % C;

a content of 0.05-0.25 % N;

a maximum content of 0.50 % Mn;

a maximum content of 0.50 % Si;

a maximum content of 0.02 % Ti;

a content of 0.05-0.5 % Nb;

a maximum content of 0.3 % Cu;

a maximum content of 0.010 % P;

a content of 0.05-0.5 % Al;

a maximum content of 0.005 % S;

a content of 0.005-0.030 % Mg;

a content of 0.001-0.01 % Ca;

a maximum content of 0.5 % V;

a maximum content of 0.005 % B;

a content of 0.001-0.030 % Zr; and

Nb and Ta as needed, balance nickel and inevitable impurities, wherein the total of Nb and Ta is at most 0.30 %, and wherein the maximum total of Al + Ti is 0.30 %.

Claim 14 (New). An alloy as in claim 13 comprising in weight %:

a content of 19.0-20.0 %Cr;

a content of 13.0-15.0 % Fe;

a content of 10.0-12.0 % Mo;

a maximum content of 1.0 % Co;

a content of 1.0-2.0 % W;

a maximum content of 0.020 % C;

a content of 0.05-0.15 % N;

a maximum content of 0.50 % Mn;

a maximum content of 0.50 % Si;

a maximum content of 0.02 % Ti;

a content of 0.1-0.3 % Nb;

a maximum content of 0.3 % Cu;

a maximum content of 0.010 % P;

a content of 0.10-0.35 Al;

a maximum content of 0.005 % S;

a content of 0.006-0.020 % Mg;

a content of 0.001-0.005 % Ca;

a maximum content of 0.30 % V;

a maximum content of 0.002 % B; and

a content of 0.005-0.025 % Zr,

34

balance nickel and inevitable impurities.

Claim 15 (New). A welding additive material in the offshore industry to connect by welding longitudinal-seam pipes of 6-Mo steel, duplex or super-duplex steel, wherein said material comprises the alloy of claim 13.

Claim 16 (New). A welding additive material to build up welding, for flanges in the offshore field or for boiler pipes in waste plants, wherein said material is comprises the alloy of claim 13.

Claim 17 (New). A build-up welding band for plant construction wherein said build up welding band comprises the alloy of claim 13.

Claim 18 (New). Gas channels of flue gas desulfurization installations, wherein said gas channels comprise the alloy of claim 13.--

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